



1/13

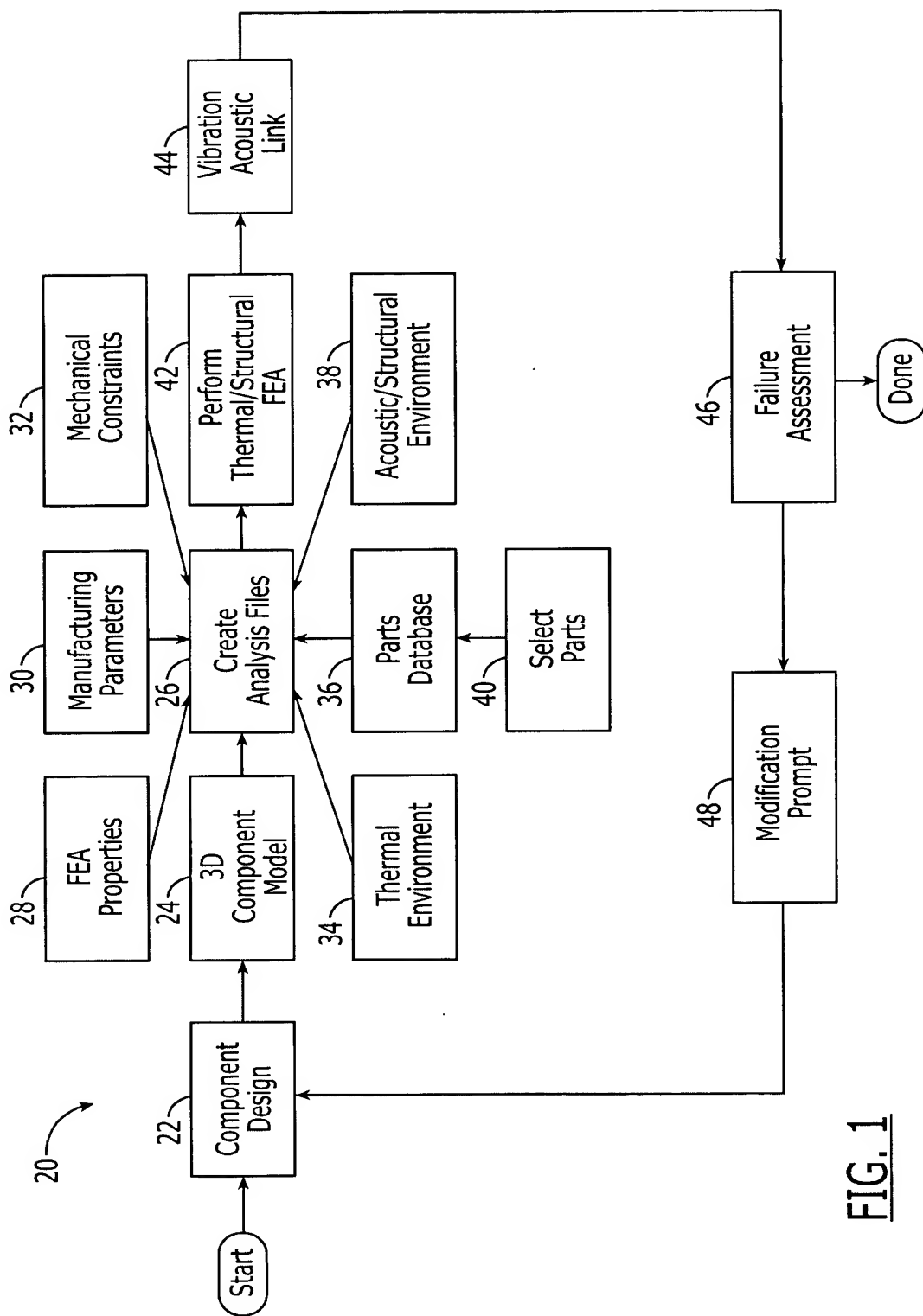


FIG. 1



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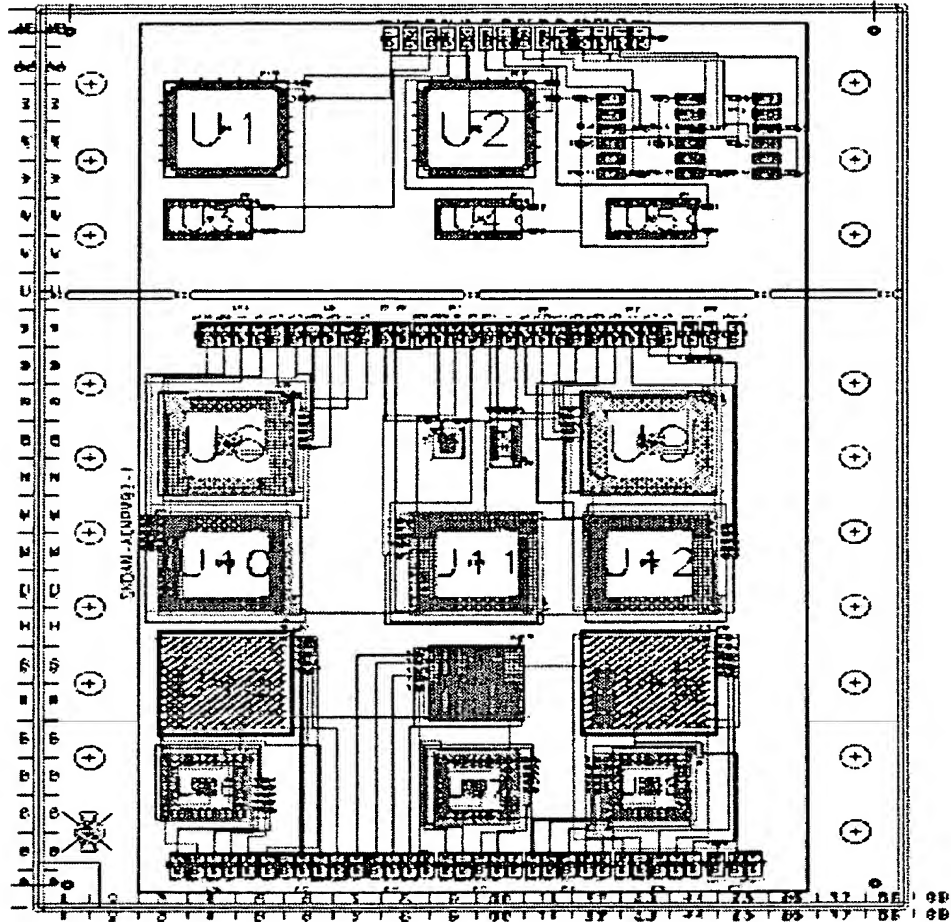


FIG. 2



Part Geometry

2.000e-0

.07

☐ Use Bounding Boxes instead of Actual Geometry (ue)

☐ Show Help

☐ Mesh Properties

☐ Target Mesh Size (sc)

☐ Material Properties

Mesh Geometry

2

4.000e-0

8.000e-0

4.000e-0

0

2.000e-0

5.000e-0

5.000e-0

4.000e-0

☐ Scale Properties to Target Mesh Size

Number of Subdivisions of Line Segments (1mr)

Number of Mesh Subdivisions between Parallel Lines (almr)

Maximum line segment length (fc)

Chamfer Threshold (dcc)

Minimum Vertices for Contours (polygons) (st)

Minimum Chord Length for Arc Idealization (sc)

Parallel Line Discrimination Distance (plmc)

Point Discrimination Distance - COVER (sdc)

Point Discrimination Distance - PWB (dslc)

Mentor Resolution (e)

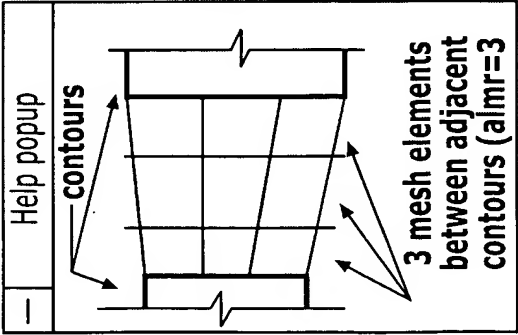
1.e 5.e

Adjacent contours within a distance of almr will be considered when constricting the mesh for a contour.

Cancel

Apply

Reset to Defaults



Help for selected field

FIG. 3



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	Durability Module	Description	Configuration
	CCC	Leadless chip component	
54	DIO	Planar-diode package	
52	IND	Inductor feedthrough foil	
58	Hybrid-GW	Gull wing	
	Hybrid-SGW	Spider gull wing	
56	L-lead	L-leaded component	
	J-lead	J-leaded component	
	PTH	Plated-through-hole component	
59	PBGA	Plastic ball grid arrays	

FIG. 4



Durability Part Number Table

Part Number	Package Name	Lead Style Name	Lead Material Name
172908-00K	313_BGA_Package_100milpitch		
173332-00P	TII-TSOP-54_10x22mm	HYBRID_002K	CU
173334-11J	pqfp_208_1e	HYBRID_024	CU
173370-00L	360_CBGA_Package		
173446-00K	388_BGA_Package		
280-10020-101	280-10020-101		
280-10025-101	280-10025-101		
280-10025-102	280-10025-102		
280-10025-103	280-10025-103		
280-10025-104	280-10025-104		
280-10035-105	280-10035-105		

Durability Part Number Table

Package Name	Substrate Length	Substrate Width	Balls	Thrm Balls X	Thrm Balls Y
144_BGA_Package	0.512	0.512	144	0	0
144_BGA_Package_ana	0.512	0.512	144	0	0
313_BGA_Package_100milpitch	1.380	1.380	169	0	1
313_BGA_Package_50milpitch	1.380	1.380	625	0	0
324_BGA_Package	0.906	0.906	324	6	6
352_BGA_Package	1.378	1.378	352	0	0
360_CBGA_Package	0.980	0.980	361	0	0
388_BGA_Package	1.378	1.378	388	6	6
Dummy_BGA_Package	0.512	0.512	144	12	12
ird_pbga_225f_025	1.180	1.180	225	0	0

New

Copy

Delete

OK

Reset

Cancel

FIG. 5



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**Durability Part Number Table**

Part Number	Package Name	Lead Style Name	Lead Material Name
172908-00K	313_BGA_Package_100milpitch		
173332-00P	TII-TSOP-54_10X22mm	HYBRID_002K	CU
173334-11J	pqfp_208_1e	HYBRID_024	CU
173370-00L	360_CBGA_Package		
173446-00K	388_BGA_Package		
280-10020-101	280-10020-101		
280-10025-101	280-10025-101		
280-10025-102	280-10025-102		
280-10025-103	280-10025-103		
280-10025-104	280-10025-104		
280-10025-105	280-10025-105		

**Durability Part Number Table**

Lead Style Name	S1	S2	S3	RHO	R1	R2	E	H1	D	S1
900-11695-fig1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
HYBRID_001	0.000	-0.030	0.000	0.000	0.000	0.013	0.000	0.047	0.014	0.015
HYBRID_002	0.005	0.080	0.080	0.000	0.750	0.650	0.008	0.008	0.050	0.010
HYBRID_002A	0.020	0.030	-0.035	0.000	0.005	0.005	0.105	0.105	0.026	0.007
HYBRID_002b	0.025	0.030	0.055	0.000	0.005	0.005	0.000	0.057	0.007	0.010
HYBRID_002c	0.010	0.030	0.056	0.000	0.005	0.005	0.000	0.035	0.006	0.006
HYBRID_002d	0.000	0.006	0.021	0.000	0.005	0.005	0.000	0.040	0.018	0.004
HYBRID_002e	0.000	0.006	0.021	0.000	0.001	0.001	0.000	0.050	0.017	0.011
HYBRID_002f	0.016	0.013	0.051	0.000	0.005	0.005	0.000	0.072	0.009	0.004
HYBRID_002g	0.037	0.012	0.071	0.000	0.006	0.006	0.000	0.063	0.012	0.005

New

Copy

Reset

Reset

Reset

Cancel

**FIG. 6**



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FIG. 7

Durability Part Number Table					
Part Number	Package Name	Lead Style Name	Lead Material Name		
172908-00K	313 BGA Package 100milpitch				
173332-00P	TII-TSOP-54_10x22mm	HYBRID_002k	CU		
173334-11J	pcpb_208_1e	HYBRID_024	CU		
173370-00L	360 CPGA Package				
173446-00K	388 BGA Package				
280-10020-101	280-10020-101				
280-10025-101	280-10025-101				
280-10025-102	280-10025-102				
280-10025-103	280-10025-103				
280-10025-104	280-10025-104				
280-10025-105	280-10025-105				

Material Table						
Name	Exp Coef	Density	Heat Capacity	Poisson	Shear Mod	Therm Cond
63SN37PB	0.000	0.000	0.000	0.000	0.000	0.000
ABLEBOND8360	21.400	8378.00	214.000	0.370	1.280	51.000
AL	45.000	3400.00	1000.000	0.350	300.000	2.900
ALBEMET	21.600	2712.00	920.000	0.330	7.600	161.000
ALB. POLY	13.900	2100.00	1926.000	0.140	11.400	296.000
ALHONEY	13.980	1806.00	1574.000	0.210	6.920	164.580
ALUMINA	21.600	500.00	920.000	0.330	2.440	29.000
AU	7.100	3847.00	960.000	0.220	26.600	27.600
AUSN	14.200	19400.00	127.000	0.420	3.980	315.000
BRAZE	15.900	14510.00	163.000	0.300	3.300	57.000
BT_LAMINATE	21.600	244.00	920.000	0.330	20.000	14.500
CER-A	15.000	1439.00	1135.000	0.300	1.330	0.310
CER-B	6.000	3847.00	960.000	0.220	16.390	27.600
CER-C	9.000	2800.00	800.000	0.300	16.390	0.900
CER-R	11.000	2800.00	800.000	0.300	16.390	0.900
CERA	6.500	3847.00	960.000	0.220	25.600	27.600
CERB	6.000	3847.00	960.000	0.220	16.390	27.600
CERC	9.000	2800.00	800.000	0.300	16.390	0.900
CERR	11.000	2800.00	800.000	0.300	16.390	0.900
	6.500	3847.00	960.000	0.220	25.600	27.600



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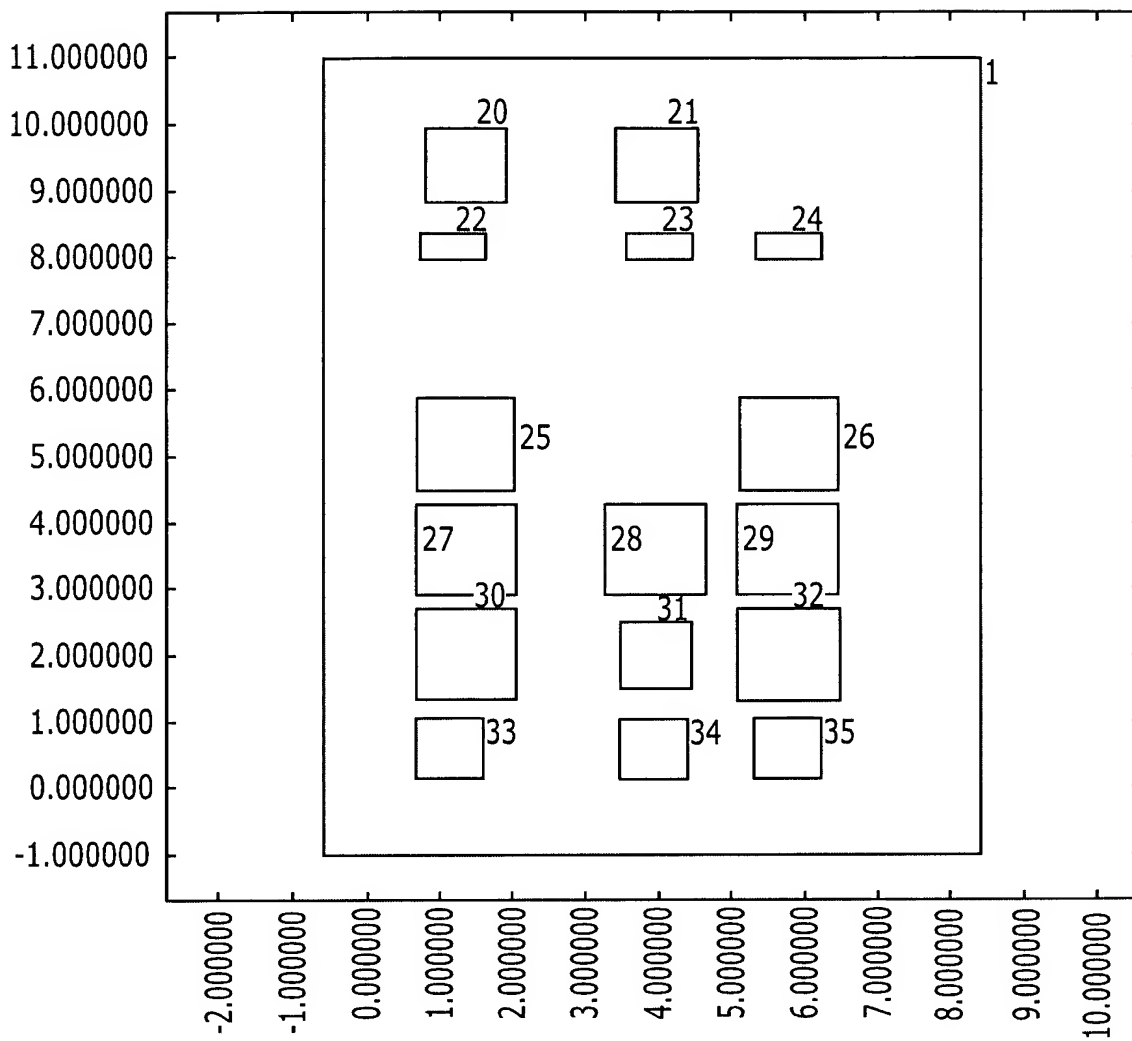


FIG. 8

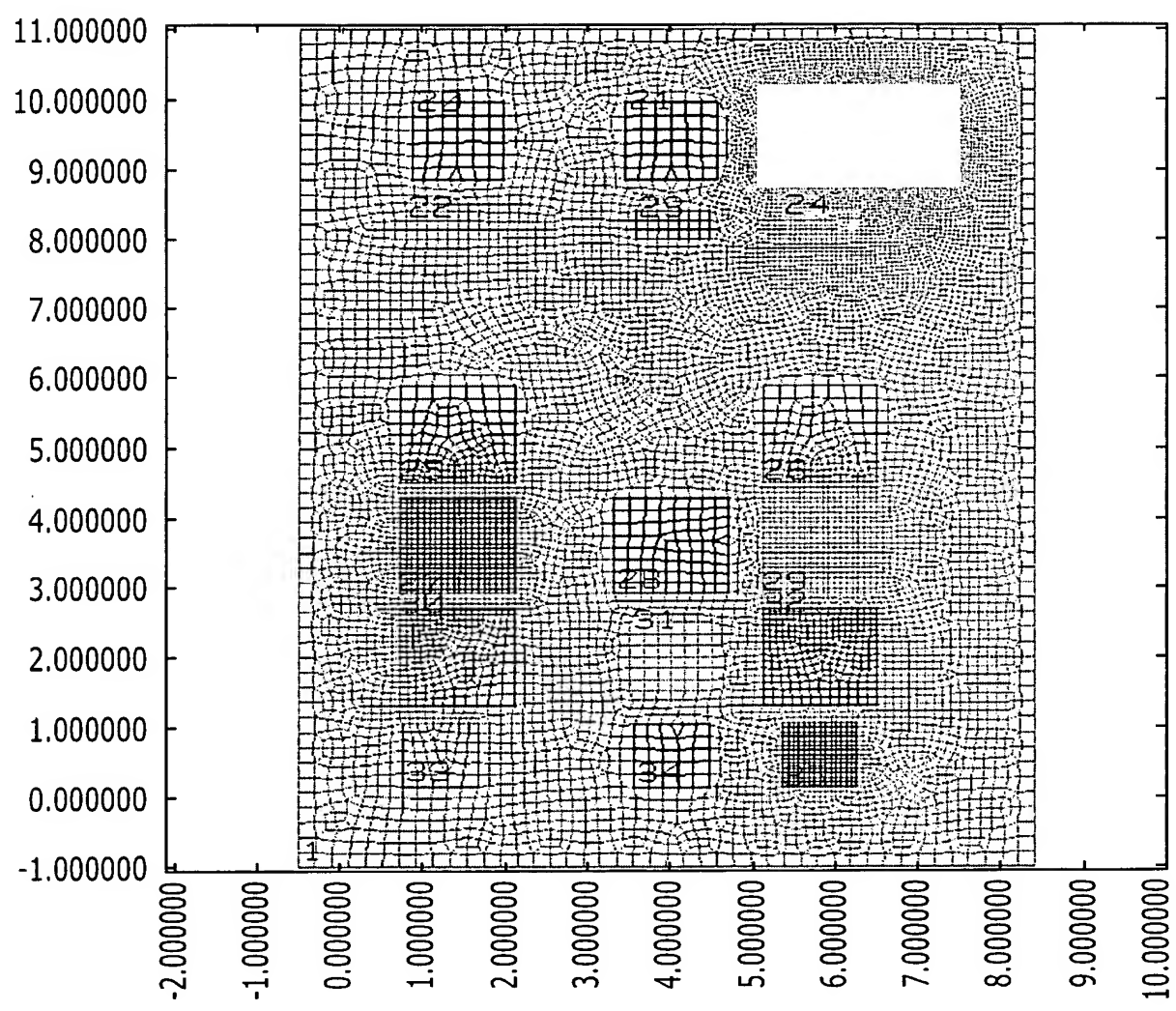


FIG. 9



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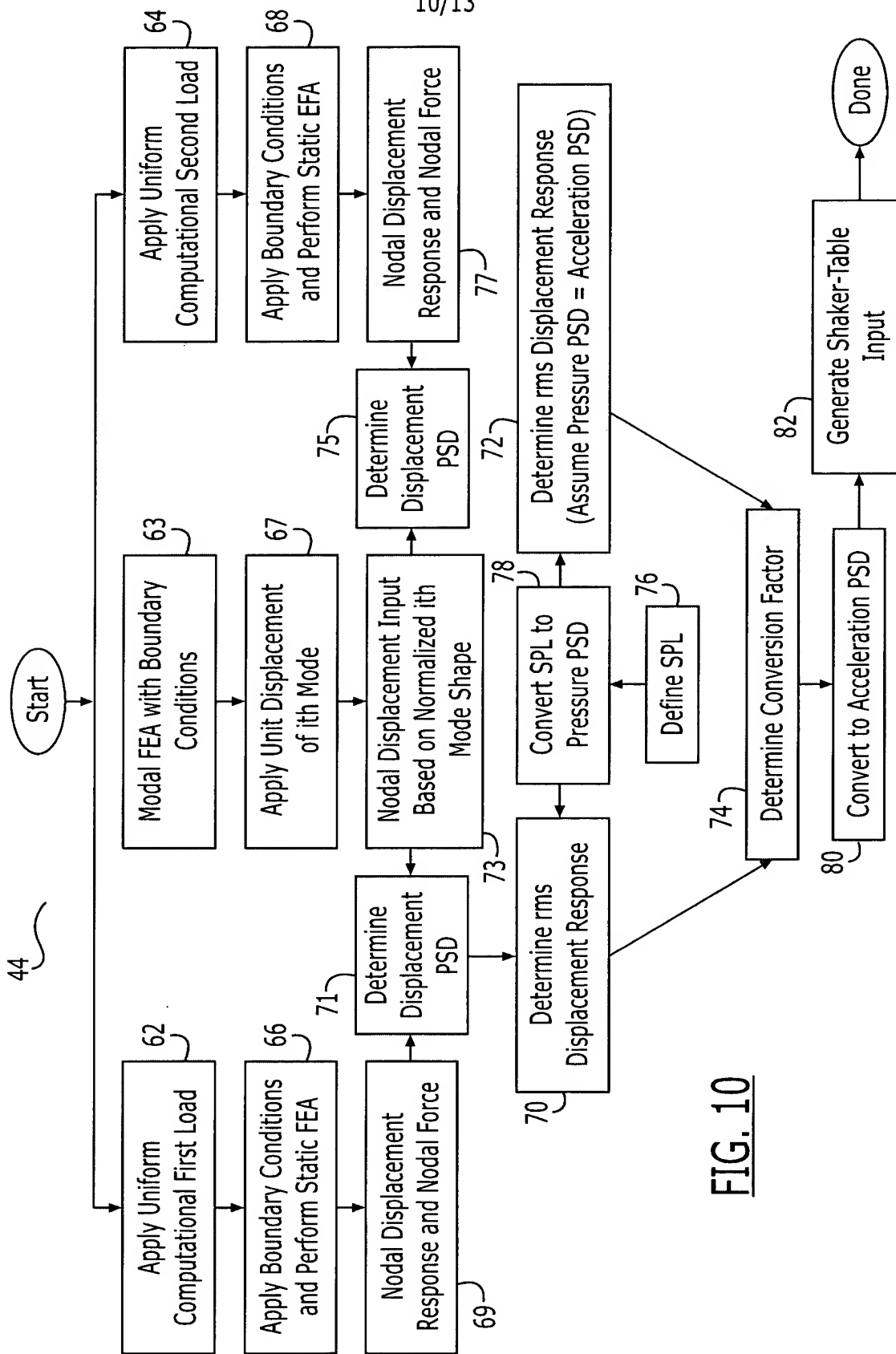


FIG. 10



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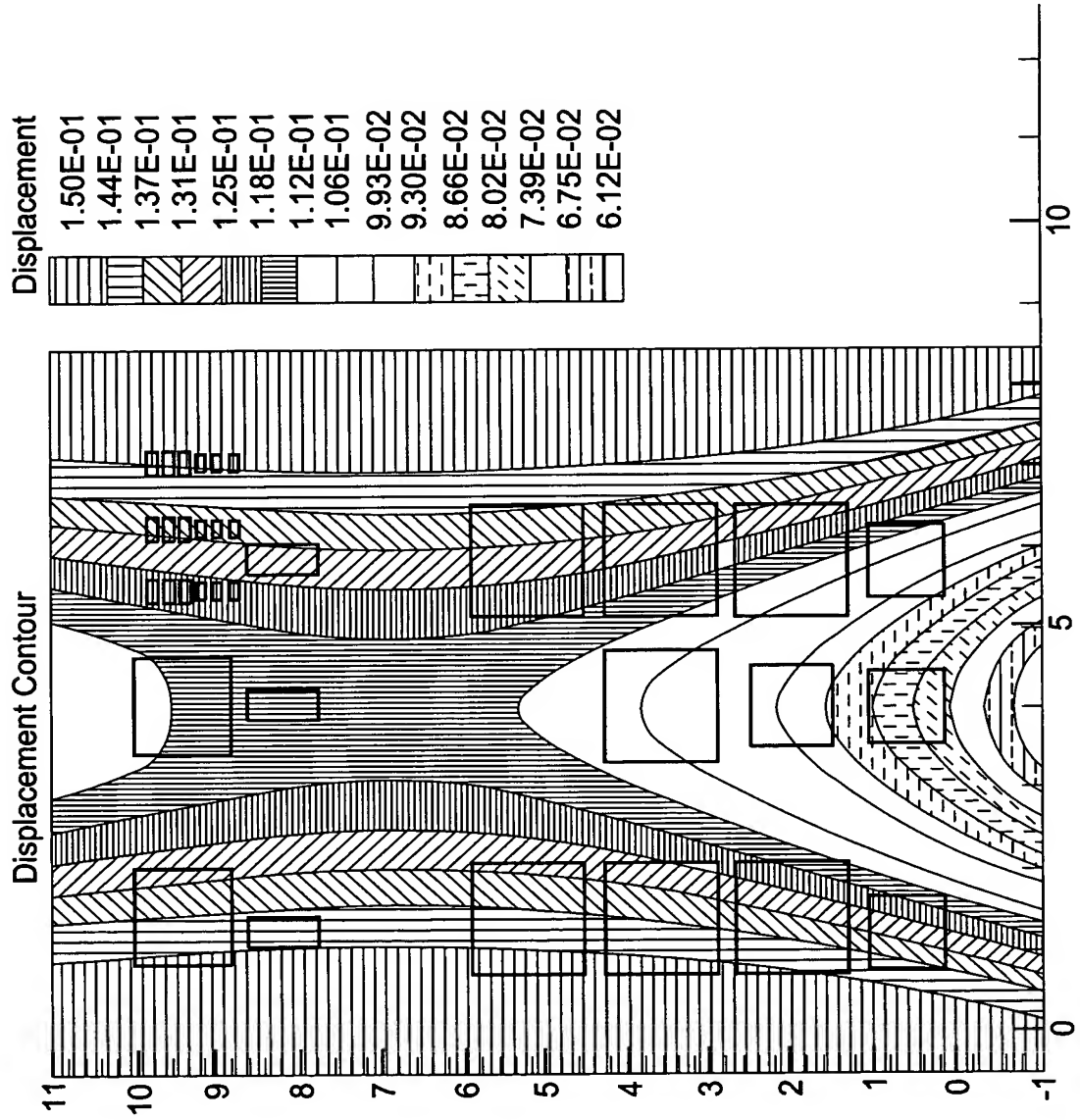
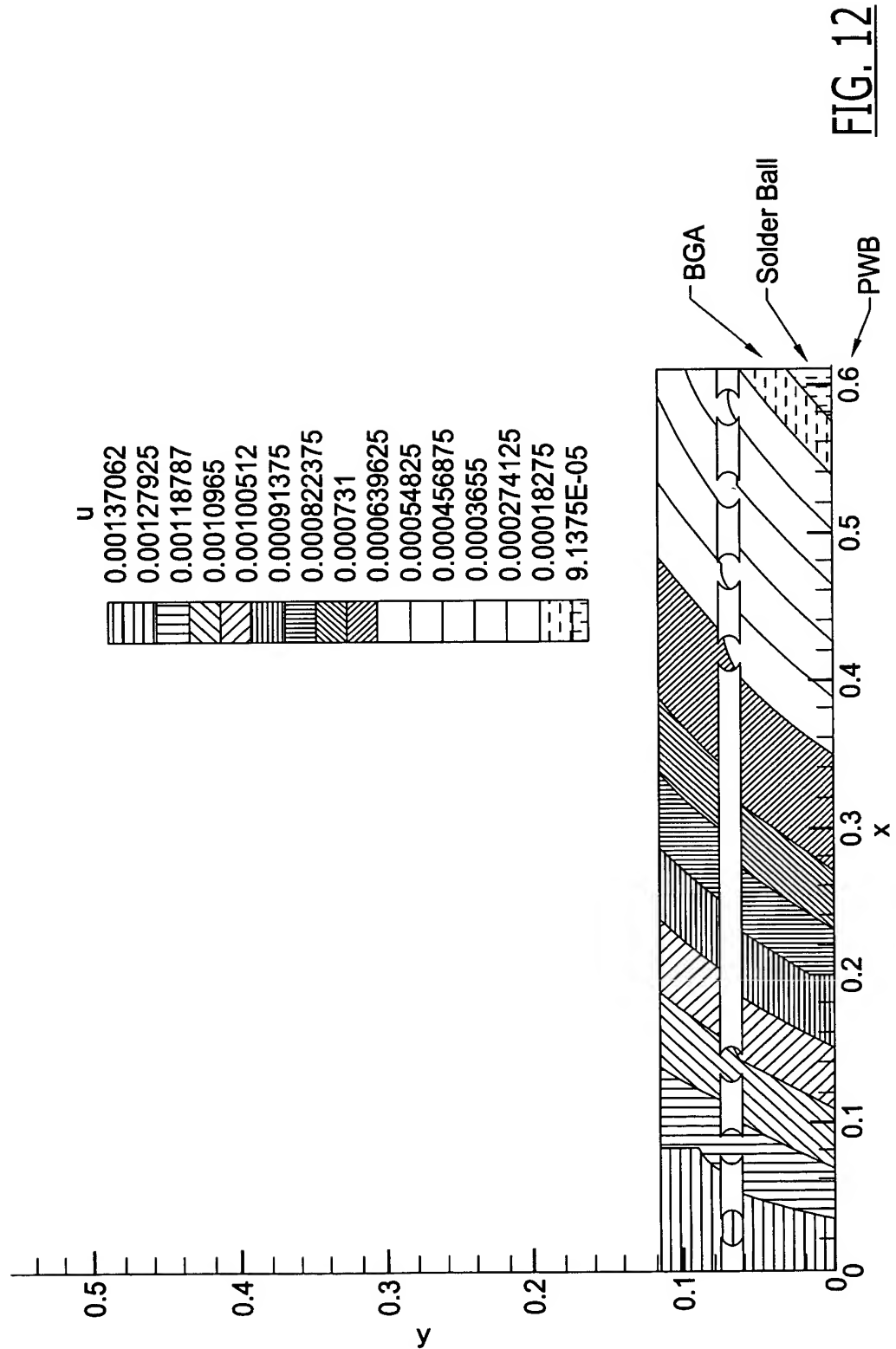


FIG. 11



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